STOUT

THE SMART CULTIVATOR

SOIL VARIETY CONFIGURATION GUIDE

WHY CONFIGURE YOUR MACHINE?

Soil types can differ significantly from one field to another. Whether the soil is **cloddy, sandy, mucky, etc.,** configuring your Smart Cultivator correctly is crucial for effective weeding. This guide will assist you in setting up your Smart Cultivator to achieve optimal results.

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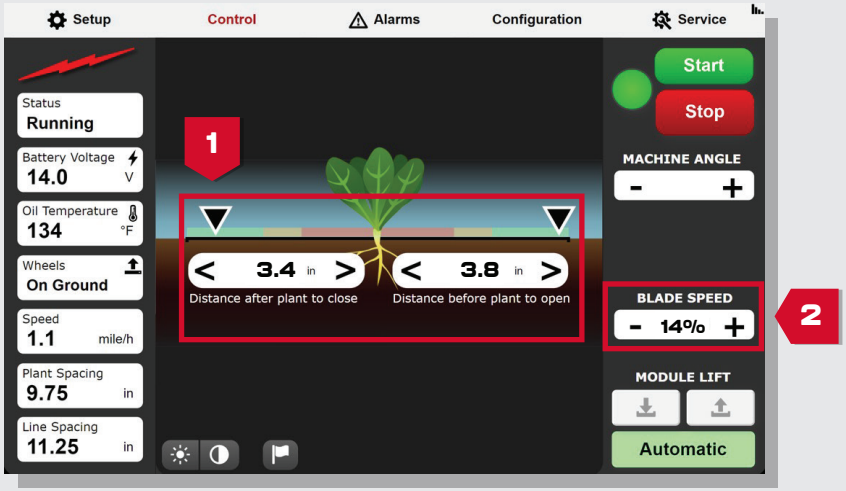
CLODDY SOIL

PLEASE NOTE ALL VALUES ARE FOR EXAMPLE ONLY



WHAT TO LOOK FOR:

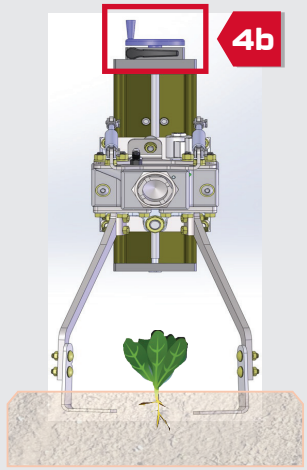
- Clods pushing into plant
- Clods covering plant
- Clod preventing actuators blades from proper ground depth
- Oscillating backbones due to dirt clods

STOUT RECOMMENDATIONS

1. Increase opening and closing distance around the plant
2. Reduce the blade speed percentage
3. Reduce the tractor speed

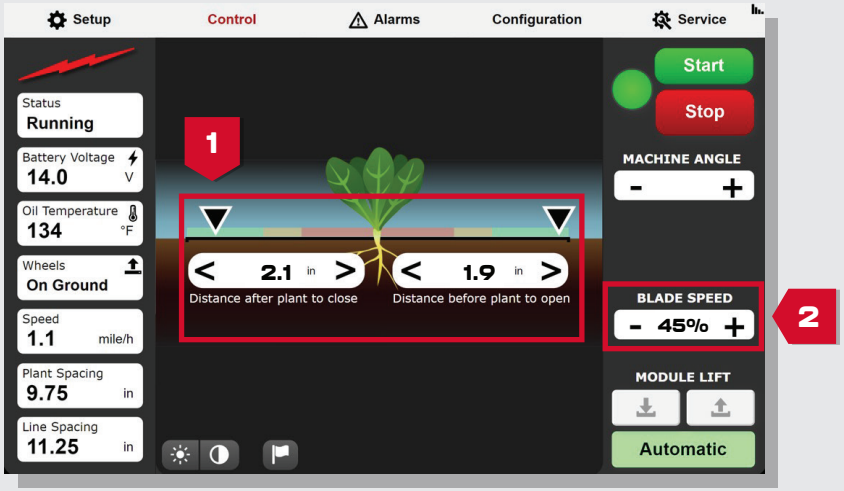
4a. Deepen blade depth to get under the clods

4b. Manually turn Z-table to adjust depth



LIGHT SANDY SOIL

PLEASE NOTE ALL VALUES ARE FOR EXAMPLE ONLY



WHAT TO LOOK FOR:

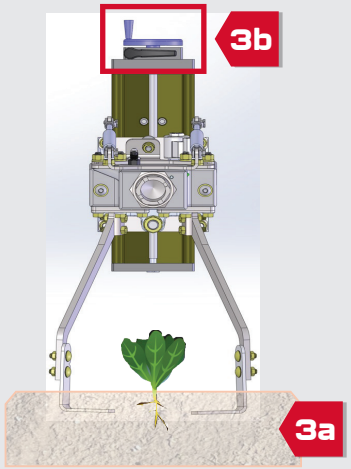
- Dirt tossed on plant
- Dirt covering plant

STOUT RECOMMENDATIONS

1. Decrease opening and closing distance around plant
2. Moderate tractor speed

3a. Shallow blade depth

3b. Manually turn Z-table to adjust depth



HARD TOP CRUST SOIL

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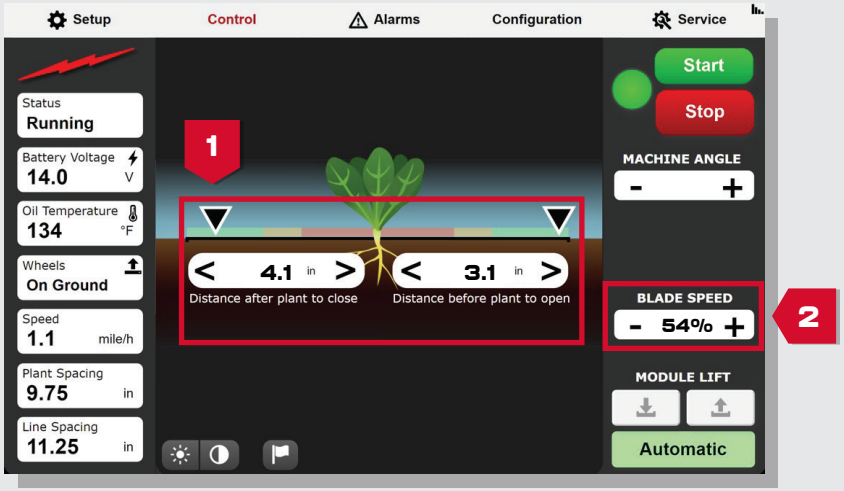


WHAT TO LOOK FOR:

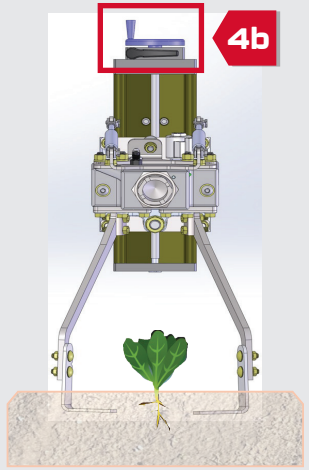
- Crust pushing into plant
- Crust covering plant
- Crust preventing blades from proper depth
- Crust wear on equipment
- Oscillating backbones due to crust

STOUT RECOMMENDATIONS

1. Increase opening and closing distance around plant
2. Increase blade speed to break up crust
3. Slower tractor speed

4a. Shallow blade depth

4b. Manually turn z-table to adjust depth



MUCK SOIL

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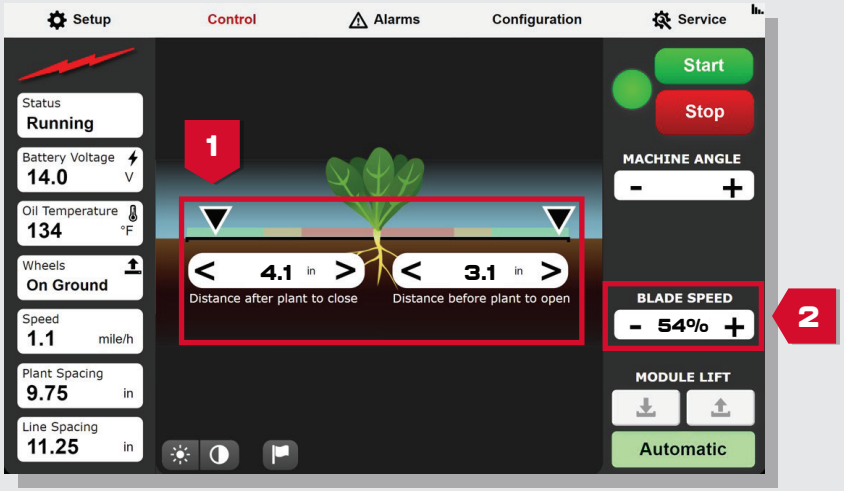
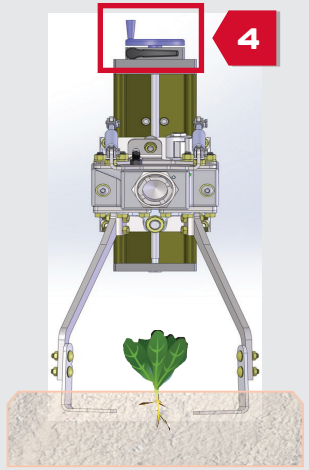


WHAT TO LOOK FOR:

- Muck soil pushing into plant
- Muck soil covering plant
- Muck build up on cultivation knives
- Backbones sinking due to soft ground
- Muck sticking to Ground Height Wheel
- Dragging weeds causing build up

STOUT RECOMMENDATIONS

1. Increase opening and closing distance around plant
2. Increase blade speed to prevent soil from sticking to knives
3. Reduce tractor speed
4. Manually turn z-table to adjust depth



HEAVY WEED SOIL

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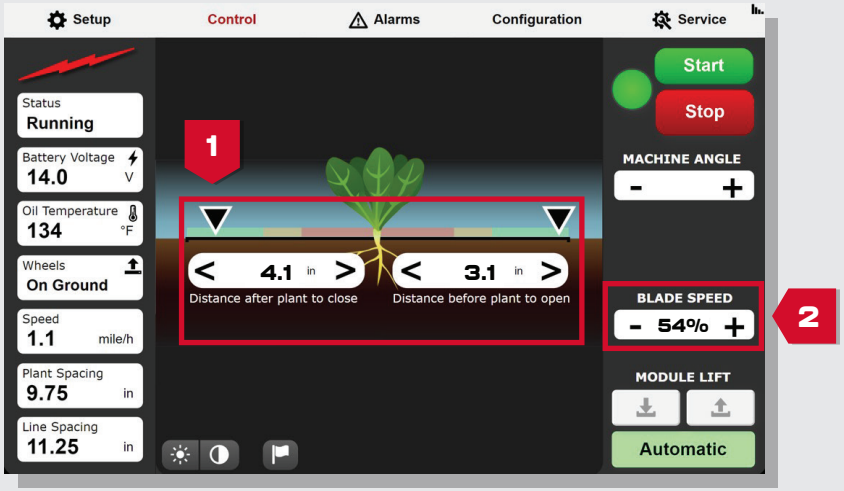


WHAT TO LOOK FOR:

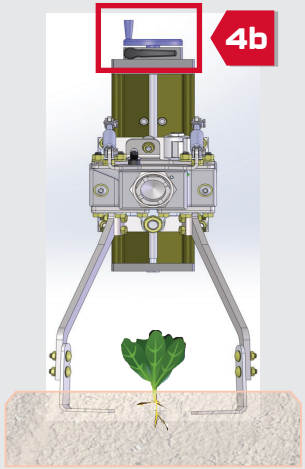
- Weeds covering plants
- Weeds getting stuck to blades
- Weeds being dragged potentially damaging plants
- Debris stuck to blades

STOUT RECOMMENDATIONS

1. Increase opening and closing distance around plant
2. Increase blade speed
3. Reduce tractor speed

4a. Shallow blade depth to prevent weeds from sticking to blades

4b. Manually turn z-table to adjust depth



WHEN NOT TO ENTER FIELD STOUT RECOMMENDATIONS

WET / DAMP CONDITIONS

Smart Cultivator will sink, causing plowing and crop kills. Mud build up on wheel encoder will cause inconsistent wheel rotation not allowing actuators to open and close properly.

PLANT SIZE LESS THAN 2" IN DIAMETER

Entering the field when plants are this young will cause crop kills due to dirt covering plants.

OVERLAPPING CROP

Plant leaves overlapping and touching will not allow blades to close in between plants. Generally, at this stage, vision system cannot distinguish individual plant.

EXTREME WEED PRESSURE

Vision system will not detect plant if weed pressure is covering plant. This will cause actuators to stay closed, thus causing crop kills.